

## Annex 5

*Summary of results obtained by Busch et al. (Annex 4)*

|             | overexpression  | antisense  |
|-------------|---|--|
| <i>psy1</i> | <ul style="list-style-type: none"> <li>phenotypic changes in primary transformants (page 440, 2<sup>nd</sup> column, 4<sup>th</sup> paragraph ff.)</li> </ul>               | <ul style="list-style-type: none"> <li>phenotypic changes (page 448, 1<sup>st</sup> column, 2<sup>nd</sup> paragraph)</li> </ul>   |
|             | <ul style="list-style-type: none"> <li>dwarf phenotype in highly expressing plants (page 447, 1<sup>st</sup> column, last paragraph ff)</li> </ul>                          | <ul style="list-style-type: none"> <li>no significant phenotype (page 443, 1<sup>st</sup> column, 2<sup>nd</sup> paragraph; page 447, 2<sup>nd</sup> column, 2<sup>nd</sup> paragraph)</li> </ul>                  |
|             | <ul style="list-style-type: none"> <li>an accumulation of phytoene (Table 1)</li> </ul>   |  |
|             | <ul style="list-style-type: none"> <li>changed pigment composition: a lowered ratio of chlorophyll to carotenoids ratio (Table 1)</li> </ul>                                | <ul style="list-style-type: none"> <li>changed pigment composition: an increased ratio of chlorophyll to carotenoids (Table 2)</li> </ul>  |
|             | <ul style="list-style-type: none"> <li>increased carotenoid level in moderately expressing plants (page 447, 2<sup>nd</sup> column, 1<sup>st</sup> paragraph)</li> </ul>    | <ul style="list-style-type: none"> <li></li> </ul>   |
| <i>psy2</i> | <ul style="list-style-type: none"> <li>decrease in total pigment content in highly expressing plants (page 447, 2<sup>nd</sup> column, 1<sup>st</sup> paragraph)</li> </ul> | <ul style="list-style-type: none"> <li>decrease in pigment content (page 447, 2<sup>nd</sup> column, last paragraph)</li> </ul>  |
|             | <ul style="list-style-type: none"> <li>phenotypic changes but not as drastic as for <i>psy1</i> (page 442, 1<sup>st</sup> column)</li> </ul>                                | <ul style="list-style-type: none"> <li>no phenotypic or metabolic changes (page 443, 2<sup>nd</sup> column, end of 1<sup>st</sup> paragraph; page 448, 1<sup>st</sup> column, 2<sup>nd</sup> paragraph)</li> </ul> |
|             | <ul style="list-style-type: none"> <li>dwarf phenotype in highly expressing plants (page 447, 1<sup>st</sup> column, last paragraph ff)</li> </ul>                          | <ul style="list-style-type: none"> <li></li> </ul>   |
|             | <ul style="list-style-type: none"> <li>accumulation of phytoene (page 447, 1<sup>st</sup> column, last paragraph)</li> </ul>  | <ul style="list-style-type: none"> <li></li> </ul>   |
|             | <ul style="list-style-type: none"> <li>increased carotenoid level in moderately expressing plants (page 447, 2<sup>nd</sup> column, 1<sup>st</sup> paragraph)</li> </ul>    | <ul style="list-style-type: none"> <li></li> </ul>   |
|             | <ul style="list-style-type: none"> <li>decrease in total pigment content in highly expressing plants (page 447, 2<sup>nd</sup> column, 1<sup>st</sup> paragraph)</li> </ul> | <ul style="list-style-type: none"> <li>decrease in pigment content (page 447, 2<sup>nd</sup> column, last paragraph)</li> </ul>  |

|            | overexpression  | antisense  |
|------------|---|--|
| <i>pds</i> | <ul style="list-style-type: none"> <li>no phenotypic or metabolic changes (see A4, page 445, 1<sup>st</sup> column, 2<sup>nd</sup> paragraph; page 448, 1<sup>st</sup> column, 3<sup>rd</sup> paragraph)</li> </ul> | <ul style="list-style-type: none"> <li>accumulation of phytoene (see A4, page 445, 2<sup>nd</sup> paragraph)</li> <li>increased carotenoid levels (see A4, page 445, 2<sup>nd</sup> paragraph; page 448, 2<sup>nd</sup> column, end of 2<sup>nd</sup> paragraph)</li> <li>bleaching of green tissue (see A4, page 445, 2<sup>nd</sup> column, 3<sup>rd</sup> paragraph)</li> </ul> |